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Docket No. ST999037
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This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Cancelled)

2. (Previously Presented) A computer implemented method for performing a clean operation on an input table having an input table name, comprising:

receiving at least one rule definition, wherein each rule definition indicates a find criteria, a replacement value, and an input data column in the input table, wherein each rule definition is associated with one rule table including the find criteria and replacement value, and wherein a rule table column parameter for each rule definition indicates the columns in the rule table including the find criteria and replacement value for the rule definition;

searching, for each rule definition, the input data column for any fields that match the find criteria;

determining whether the rule definition specifies an output table; and

in response to determining that the rule definition does not specify an output table, directly inserting, for each rule definition, the replacement value in the fields in the input data column that match the find criteria, wherein subsequent applications of additional rule definitions applied to the same input data column operate on replacement values inserted in the input data column in previously applied rule definitions.

3. (Previously Presented) A computer implemented method for performing a clean operation on an input table having an input table name, comprising:

receiving at least one rule definition, wherein each rule definition indicates a find criteria, a replacement value, and an input data column in the input table, wherein there is a separate rule table including the find criteria and replacement value associated with at least one rule definition,

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and wherein, for each rule definition, a rule table column parameter indicates the columns in the rule table for the rule definition including the find criteria and replacement value for that rule definition;

searching, for each rule definition, the input data column for any fields that match the find criteria;

determining whether the rule definition specifies an output table; and

in response to determining that the rule definition does not specify an output table, directly inserting, for each rule definition, the replacement value in the fields in the input data column that match the find criteria, wherein subsequent applications of additional rule definitions applied to the same input data column operate on replacement values inserted in the input data column in previously applied rule definitions.

4. (Cancelled)

5. (Cancelled)

6. (Previously Presented) A computer implemented method for performing a clean operation on an input table having an input table name, comprising:

receiving at least one rule definition, wherein each rule definition indicates a find criteria, a replacement value, and an input data column in the input table;

searching, for each rule definition, the input data column for any fields that match the find criteria;

determining whether the rule definition specifies an output table; and

in response to determining that the rule definition does not specify an output table, directly inserting, for each rule definition, the replacement value in the fields in the input data column that match the find criteria, wherein subsequent applications of additional rule definitions

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applied to the same input data column operate on replacement values inserted in the input data column in previously applied rule definitions,

wherein at least one rule definition includes multiple find criteria and a corresponding replacement value for each find criteria, wherein searching the input data column comprises applying each of the multiple find criteria to one field until one of: (i) a match occurs and (ii) none of the multiple find criteria are found to match the field content, wherein inserting the replacement value comprises inserting the replacement value corresponding to one find criteria that matched the field content, wherein a sort column includes values to use to sort the multiple find criteria and corresponding replacement value, and wherein the step of searching comprises applying the multiple find criteria to each field in the order specified in the sort column.

7. (Previously Presented) A computer implemented method for performing a clean operation on an input table having an input table name, comprising:

receiving at least one rule definition, wherein each rule definition indicates a find criteria, a replacement value, and an input data column in the input table, wherein the rule definition comprises a type of rule that is a member of the set of rules consisting of: find and replace, discretization, and numeric clip, and wherein at least two rule definitions are comprised of different rule types;

searching, for each rule definition, the input data column for any fields that match the find criteria;

determining whether the rule definition specifies an output table; and
in response to determining that the rule definition does not specify an output table,
directly inserting, for each rule definition, the replacement value in the fields in the input data column that match the find criteria, wherein subsequent applications of additional rule definitions applied to the same input data column operate on replacement values inserted in the input data column in previously applied rule definitions.

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8. (Cancelled)

9. (Cancelled)

10. (Cancelled)

11. (Cancelled)

12. (Cancelled)

13. (Cancelled)

14. (Cancelled)

15. (Previously Presented) A computer implemented system for performing a clean operation on an input table having an input data table name, comprising;

means for receiving at least one rule definition, wherein each rule definition indicates a find criteria, a replacement value, and an input data column in the input table, wherein each rule definition is associated with one rule table including the find criteria and replacement value, and wherein a rule table column parameter for each rule definition indicates the columns in the rule table including the find criteria and replacement value for the rule definition;

means for searching, for each rule definition, the input data column for any fields that match the find criteria;

means for determining whether the rule definition specifies an output table; and

means for, in response to determining that the rule definition does not specify an output table, directly inserting, for each rule definition, the replacement value in the fields in the input data column that match the find criteria, wherein subsequent applications of additional rule

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definitions applied to the same input data column operate on replacement values inserted in the input data column in previously applied rule definitions.

16. (Previously Presented) A computer implemented system for performing a clean operation on an input table having an input data table name, comprising;

means for receiving at least one rule definition, wherein each rule definition indicates a find criteria, a replacement value, and an input data column in the input table, wherein there is a separate rule table including the find criteria and replacement value associated with at least one rule definition, and wherein, for each rule definition, a rule table column parameter indicates the columns in the rule table for the rule definition including the find criteria and replacement value for that rule definition;

means for searching, for each rule definition, the input data column for any fields that match the find criteria;

means for determining whether the rule definition specifies an output table; and

means for, in response to determining that the rule definition does not specify an output table, directly inserting, for each rule definition, the replacement value in the fields in the input data column that match the find criteria, wherein subsequent applications of additional rule definitions applied to the same input data column operate on replacement values inserted in the input data column in previously applied rule definitions.

17. (Cancelled)

18. (Cancelled)

19. (Previously Presented) A computer implemented system for performing a clean operation on an input table having an input data table name, comprising;

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means for receiving at least one rule definition, wherein each rule definition indicates a find criteria, a replacement value, and an input data column in the input table;

means for searching, for each rule definition, the input data column for any fields that match the find criteria;

means for determining whether the rule definition specifies an output table; and

means for, in response to determining that the rule definition does not specify an output table, directly inserting, for each rule definition, the replacement value in the fields in the input data column that match the find criteria, wherein subsequent applications of additional rule definitions applied to the same input data column operate on replacement values inserted in the input data column in previously applied rule definitions;

wherein at least one rule definition includes multiple find criteria and a corresponding replacement value for each find criteria, wherein the means for searching the input data column comprises applying each of the multiple find criteria to one field until one of: (i) a match occurs and (ii) none of the multiple find criteria are found to match the field content, and wherein inserting the replacement value comprises inserting the replacement value corresponding to one find criteria that matched the field content, wherein a sort column includes values to use to sort the multiple find criteria and corresponding replacement value, and wherein the means for searching comprises applying the multiple find criteria to each field in the order specified in the sort column.

20. (Previously Presented) A computer implemented system for performing a clean operation on an input table having an input data table name, comprising;

means for receiving at least one rule definition, wherein each rule definition indicates a find criteria, a replacement value, and an input data column in the input table, wherein the rule definition comprises a type of rule that is a member of the set of rules consisting of: find and replace, discretization, and numeric clip, and wherein at least two rule definitions are comprised of different rule types;

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means for searching, for each rule definition, the input data column for any fields that match the find criteria;

means for determining whether the rule definition specifies an output table; and

means for, in response to determining that the rule definition does not specify an output table, directly inserting, for each rule definition, the replacement value in the fields in the input data column that match the find criteria, wherein subsequent applications of additional rule definitions applied to the same input data column operate on replacement values inserted in the input data column in previously applied rule definitions.

21. (Cancelled)

22. (Cancelled)

23. (Cancelled)

24. (Cancelled)

25. (Cancelled)

26. (Cancelled)

27. (Cancelled)

28. (Previously Presented) An article of manufacture for use performing a clean operation on an input table in a database having an input data table name, the article of manufacture comprising computer usable media including at least one computer program embedded therein that causes the computer to perform:

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receiving at least one rule definition, wherein each rule definition indicates a find criteria, a replacement value, and an input data column in the input table, wherein each rule definition is associated with one rule table including the find criteria and replacement value, and wherein a rule table column parameter for each rule definition indicates the columns in the rule table including the find criteria and replacement value for the rule definition;

searching, for each rule definition, the input data column for any fields that match the find criteria;

determining whether the rule definition specifies an output table; and

in response to determining that the rule definition does not specify an output table, directly inserting, for each rule definition, the replacement value in the fields in the input data column that match the find criteria, wherein subsequent applications of additional rule definitions applied to the same input data column operate on replacement values inserted in the input data column in previously applied rule definitions.

29. (Previously Presented) An article of manufacture for use performing a clean operation on an input table in a database having an input data table name, the article of manufacture comprising computer usable media including at least one computer program embedded therein that causes the computer to perform:

receiving at least one rule definition, wherein each rule definition indicates a find criteria, a replacement value, and an input data column in the input table, wherein there is a separate rule table including the find criteria and replacement value associated with at least one rule definition, and wherein, for each rule definition, a rule table column parameter indicates the columns in the rule table for the rule definition including the find criteria and replacement value for that rule definition;

searching, for each rule definition, the input data column for any fields that match the find criteria;

determining whether the rule definition specifies an output table; and

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in response to determining that the rule definition does not specify an output table, directly inserting, for each rule definition, the replacement value in the fields in the input data column that match the find criteria, wherein subsequent applications of additional rule definitions applied to the same input data column operate on replacement values inserted in the input data column in previously applied rule definitions.

30. (Cancelled)

31. (Cancelled)

32. (Previously Presented) An article of manufacture for use performing a clean operation on an input table in a database having an input data table name, the article of manufacture comprising computer usable media including at least one computer program embedded therein that causes the computer to perform:

receiving at least one rule definition, wherein each rule definition indicates a find criteria, a replacement value, and an input data column in the input table;

searching, for each rule definition, the input data column for any fields that match the find criteria;

determining whether the rule definition specifies an output table; and

in response to determining that the rule definition does not specify an output table, directly inserting, for each rule definition, the replacement value in the fields in the input data column that match the find criteria, wherein subsequent applications of additional rule definitions applied to the same input data column operate on replacement values inserted in the input data column in previously applied rule definitions;

wherein at least one rule definition includes multiple find criteria and a corresponding replacement value for each find criteria, wherein searching the input data column comprises applying each of the multiple find criteria to one field until one of: (i) a match occurs and (ii)

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none of the multiple find criteria are found to match the field content, and wherein inserting the replacement value comprises inserting the replacement value corresponding to one find criteria that matched the field content, wherein a sort column includes values to use to sort the multiple find criteria and corresponding replacement value, and wherein searching comprises applying the multiple find criteria to each field in the order specified in the sort column.

33. (Previously Presented) An article of manufacture for use performing a clean operation on an input table in a database having an input data table name, the article of manufacture comprising computer usable media including at least one computer program embedded therein that causes the computer to perform:

receiving at least one rule definition, wherein each rule definition indicates a find criteria, a replacement value, and an input data column in the input table, wherein the rule definition comprises a type of rule that is a member of the set of rules consisting of: find and replace, discretization, and numeric clip, and wherein at least two rule definitions are comprised of different rule types;

searching, for each rule definition, the input data column for any fields that match the find criteria;

determining whether the rule definition specifies an output table; and

in response to determining that the rule definition does not specify an output table, directly inserting, for each rule definition, the replacement value in the fields in the input data column that match the find criteria, wherein subsequent applications of additional rule definitions applied to the same input data column operate on replacement values inserted in the input data column in previously applied rule definitions.

34. (Cancelled)

35. (Cancelled)

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36. (Cancelled)

37. (Cancelled)

38. (Cancelled)

39. (Cancelled)

40. (Cancelled)

41. (Previously Presented) A memory device including a command data structure, comprising:

an input data table name parameter indicating the input table subject to the clean operation; and

at least one rule definition, wherein each rule definition includes a find criteria, a replacement value, and an input data column in the input table, wherein, for each rule definition, the input data column is searched for any fields that match the find criteria, wherein, for each rule definition, it is determined whether the rule definition specifies an output table, and in response to determining that the rule definition does not specify an output table, the replacement value is directly inserted in the fields in the input data column that match the find criteria, wherein subsequent applications of additional rule definitions applied to the same input data column operate on replacement values inserted in the input data column in previously applied rule definitions, and wherein at least one rule definition further includes: an indication of one rule table including the find criteria and replacement value for the at least two rule definitions, such that the one rule table includes the find criteria and replacement value for the at least two rule

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definitions and a rule table column parameter for the at least two rule definitions indicating the columns in the rule table including the find criteria and replacement value for the rule definitions.

42. (Previously Presented) A memory device including a command data structure, comprising:

an input data table name parameter indicating the input table subject to the clean operation; and

at least one rule definition, wherein each rule definition includes a find criteria, a replacement value, and an input data column in the input table, wherein, for each rule definition, the input data column is searched for any fields that match the find criteria, wherein, for each rule definition, it is determined whether the rule definition specifies an output table, and in response to determining that the rule definition does not specify an output table, the replacement value is directly inserted in the fields in the input data column that match the find criteria, wherein subsequent applications of additional rule definitions applied to the same input data column operate on replacement values inserted in the input data column in previously applied rule definitions, and wherein at least one rule definition further includes: an indication of a separate rule table for each rule definition including the find criteria and replacement value for the at least two rule definitions and a rule table column parameter indicating the columns in the rule table for the rule definition including the find criteria and replacement value for that rule definition.

43. (Cancelled)

44. (Cancelled)

45. (Previously Presented) A memory device including a command data structure, comprising:

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an input data table name parameter indicating the input table subject to the clean operation; and

at least one rule definition, wherein each rule definition includes a find criteria, a replacement value, and an input data column in the input table, wherein, for each rule definition, the input data column is searched for any fields that match the find criteria, wherein, for each rule definition, it is determined whether the rule definition specifies an output table, and in response to determining that the rule definition does not specify an output table, the replacement value is directly inserted in the fields in the input data column that match the find criteria, and wherein subsequent applications of additional rule definitions applied to the same input data column operate on replacement values inserted in the input data column in previously applied rule definitions, wherein at least one rule definition further includes multiple find criteria and a corresponding replacement value for each find criteria, wherein the input data column is searched by applying each of the multiple find criteria to one field until one of: (i) a match occurs and (ii) none of the multiple find criteria are found to match the field content, and wherein the replacement value corresponding to the matching find criteria is inserted into the field, wherein the at least one rule definition further comprises a sort column including values to use to sort the multiple find criteria and corresponding replacement value, and wherein the multiple find criteria are applied to each field in the input data column in the order specified in the sort column.

46. (Previously Presented) A memory device including a command data structure, comprising:

an input data table name parameter indicating the input table subject to the clean operation; and

at least one rule definition, wherein each rule definition includes a find criteria, a replacement value, and an input data column in the input table, wherein, for each rule definition, the input data column is searched for any fields that match the find criteria, wherein, for each rule definition, it is determined whether the rule definition specifies an output table, and in response

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to determining that the rule definition does not specify an output table, the replacement value is directly inserted in the fields in the input data column that match the find criteria, wherein subsequent applications of additional rule definitions applied to the same input data column operate on replacement values inserted in the input data column in previously applied rule definitions, wherein the rule definition comprises a type of rule that is a member of the set of rules consisting of: find and replace, discretization, and numeric clip, and wherein at least two rule definitions are comprised of different rule types.